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 1634



1600

#14

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/187,669A

DATE: 02/05/2002
 TIME: 16:54:46

Input Set : A:\ES.txt
 Output Set: N:\CRF3\02052002\I187669A.raw

ENTERED

3 <110> APPLICANT: MARBAN, EDUARDO
 5 <120> TITLE OF INVENTION: SOMATIC TRANSFER OF MODIFIED GENES TO PREDICT DRUG
 6 EFFECTS
 8 <130> FILE REFERENCE: 47728(1699)
 10 <140> CURRENT APPLICATION NUMBER: 09/187,669A
 11 <141> CURRENT FILING DATE: 1998-11-05
 13 <150> PRIOR APPLICATION NUMBER: 60/064,893
 14 <151> PRIOR FILING DATE: 1997-11-07
 16 <160> NUMBER OF SEQ ID NOS: 2
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 630
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Unknown Organism
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Description of Unknown Organism: Mammalian ion
 27 channel protein
 29 <400> SEQUENCE: 1
 30 Met Ala Ala Gly Val Ala Ala Trp Leu Pro Phe Ala Arg Ala Ala Ala
 31 1 5 10 15
 33 Ile Gly Trp Met Pro Val Ala Ser Gly Pro Met Pro Ala Pro Pro Arg
 34 20 25 30
 36 Gln Glu Arg Lys Arg Thr Gln Asp Ala Leu Ile Val Leu Asn Val Ser
 37 35 40 45
 39 Gly Thr Arg Phe Gln Thr Trp Gln Asp Thr Leu Glu Arg Tyr Pro Asp
 40 50 55 60
 42 Thr Leu Leu Gly Ser Ser Glu Arg Asp Phe Phe Tyr His Pro Glu Thr
 43 65 70 75 80
 45 Gln Gln Tyr Phe Phe Asp Arg Asp Pro Asp Ile Phe Arg His Ile Leu
 46 85 90 95
 48 Asn Phe Tyr Arg Thr Gly Lys Leu His Tyr Pro Arg His Glu Cys Ile
 49 100 105 110
 51 Ser Ala Tyr Asp Glu Glu Leu Ala Phe Phe Gly Leu Ile Pro Glu Ile
 52 115 120 125
 54 Ile Gly Asp Cys Cys Tyr Glu Glu Tyr Lys Asp Arg Arg Arg Glu Asn
 55 130 135 140
 57 Ala Glu Arg Leu Gln Asp Asp Ala Asp Thr Asp Asn Thr Gly Glu Ser
 58 145 150 155 160
 60 Ala Leu Pro Thr Met Thr Ala Arg Gln Arg Val Trp Arg Ala Phe Glu
 61 165 170 175
 63 Asn Pro His Thr Ser Thr Met Ala Leu Val Phe Tyr Tyr Val Thr Gly
 64 180 185 190
 66 Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Val Pro

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67          195          200          205
69 Cys Gly Ser Ser Pro Gly His Ile Lys Glu Leu Pro Cys Gly Glu Arg
70          210          215          220
72 Tyr Ala Val Ala Phe Phe Cys Leu Asp Thr Ala Cys Val Met Ile Phe
73 225          230          235          240
75 Thr Val Glu Tyr Leu Leu Arg Leu Ala Ala Ala Pro Ser Arg Tyr Arg
76          245          250          255
78 Phe Val Arg Ser Val Met Ser Ile Ile Asp Val Val Ala Ile Leu Pro
79          260          265          270
81 Tyr Tyr Ile Gly Leu Val Met Thr Asp Asn Glu Asp Val Ser Gly Ala
82          275          280          285
84 Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys Phe Ser
85          290          295          300
87 Arg His Ser Gly Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys Ser Cys
88 305          310          315          320
90 Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala Ile Ile
91          325          330          335
93 Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Ser Ser Ala Ser
94          340          345          350
96 Lys Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val Thr Met
97          355          360          365
99 Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Lys Thr Ile Ala Gly Lys
100          370          375          380
102 Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile Ala Leu
103 385          390          395          400
105 Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His Gln Asn
106          405          410          415
108 Gln Arg Ala Asp Lys Arg Arg Ala Gln Lys Lys Ala Arg Leu Ala Arg
109          420          425          430
111 Ile Arg Ala Ala Lys Ser Gly Ser Ala Asn Ala Tyr Met Gln Ser Lys
112          435          440          445
114 Arg Asn Gly Leu Leu Ser Asn Gln Leu Gln Ser Ser Glu Asp Glu Pro
115          450          455          460
117 Ala Phe Val Ser Lys Ser Gly Ser Ser Phe Glu Thr Gln His His His
118 465          470          475          480
120 Leu Leu His Cys Leu Glu Lys Thr Thr Asn His Glu Phe Val Asp Glu
121          485          490          495
123 Gln Val Phe Glu Glu Ser Cys Met Glu Val Ala Thr Val Asn Arg Pro
124          500          505          510
126 Ser Ser His Ser Pro Ser Leu Ser Ser Gln Gln Gly Val Thr Ser Thr
127          515          520          525
129 Cys Cys Ser Arg Arg His Lys Lys Thr Phe Arg Ile Pro Asn Ala Asn
130          530          535          540
132 Val Ser Gly Ser His Arg Gly Ser Val Gln Glu Leu Ser Thr Ile Gln
133 545          550          555          560
135 Ile Arg Cys Val Glu Arg Thr Pro Leu Ser Asn Ser Arg Ser Ser Leu
136          565          570          575
138 Asn Ala Lys Met Glu Glu Cys Val Lys Leu Asn Cys Glu Gln Pro Tyr
139          580          585          590

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141 Val Thr Thr Ala Ile Ile Ser Ile Pro Thr Pro Pro Val Thr Thr Pro
142          595          600          605
144 Glu Gly Asp Asp Arg Pro Glu Ser Pro Glu Tyr Ser Gly Gly Asn Ile
145      610          615          620
147 Val Arg Val Ser Ala Leu
148 625          630
151 <210> SEQ ID NO: 2
152 <211> LENGTH: 214
153 <212> TYPE: PRT
154 <213> ORGANISM: Unknown Organism
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Unknown Organism: Mammalian ion
158     channel protein
160 <400> SEQUENCE: 2
161 Met Ala Ala Gly Val Ala Ala Trp Leu Pro Phe Ala Arg Ala Ala Ala
162   1          5          10          15
164 Ile Gly Trp Met Pro Val Ala Ser Gly Pro Met Pro Ala Pro Pro Arg
165      20          25          30
167 Gln Glu Arg Lys Arg Thr Gln Asp Ala Leu Ile Val Leu Asn Val Ser
168      35          40          45
170 Gly Thr Arg Phe Gln Thr Trp Gln Asp Thr Leu Glu Arg Tyr Pro Asp
171      50          55          60
173 Thr Leu Leu Gly Ser Ser Glu Arg Asp Phe Phe Tyr His Pro Glu Thr
174  65          70          75          80
176 Gln Gln Tyr Phe Phe Asp Arg Asp Pro Asp Ile Phe Arg His Ile Leu
177      85          90          95
179 Asn Phe Tyr Arg Thr Gly Lys Leu His Tyr Pro Arg His Glu Cys Ile
180      100         105         110
182 Ser Ala Tyr Asp Glu Glu Leu Ala Phe Phe Gly Leu Ile Pro Glu Ile
183      115         120         125
185 Ile Gly Asp Cys Cys Tyr Glu Glu Tyr Lys Asp Arg Arg Arg Glu Asn
186      130         135         140
188 Ala Glu Arg Leu Gln Asp Asp Ala Asp Thr Asp Asn Thr Gly Glu Ser
189 145         150         155         160
191 Ala Leu Pro Thr Met Thr Ala Arg Gln Arg Val Trp Arg Ala Phe Glu
192      165         170         175
194 Asn Pro His Thr Ser Thr Met Ala Leu Val Phe Tyr Tyr Val Thr Gly
195      180         185         190
197 Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Gly Ser
198      195         200         205
200 Arg His Asp Lys Ile His
201      210

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VERIFICATION SUMMARY

DATE: 02/05/2002

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TIME: 16:54:47

Input Set : A:\ES.txt

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09/187669

A:\>DIR

Volume in drive A has no label
Directory of A:\

File not found

1,457,664 bytes free

A:\>

Onscreen message when STIC
PC tried to read
submitted CRF

A:\>DIR

Volume in drive A has no label
Directory of A:\

File not found

1,457,664 bytes free

A:\>